

Amendments to the Abstract:

Please replace the paragraph beginning at page 83, line 7 with the following amended paragraph:

This invention provides prokaryotic ~~glycosyltransferases, including a bifunctional sialyltransferase that has both an α 2,3- and an α 2,8- activity. A β 1,4-GalNAc transferase β 1,4-N-acetylglucosaminyl (GalNAc) transferases and a β 1,3-galactosyltransferase~~ are also provided by the invention, as are other glycosyltransferases and enzymes involved in synthesis of lipooligosaccharide (LOS). The glycosyltransferases β 1,4-GalNAc transferases are obtained from, for example, *Campylobacter* species, including *C. jejuni*. In additional embodiments, the invention provides nucleic acids that encode the glycosyltransferases β 1,4-GalNAc transferases, as well as expression vectors and host cells for expressing the glycosyltransferases β 1,4-GalNAc transferases.